

**ABSTRACT OF THE DISCLOSURE**

A rotating anode for an x-ray tube has an anode body composed of composite fiber material, mounted in a bearing system, the anode body having a target surface with a focal ring and including fibers with particularly high heat conductivity in the longitudinal direction. An axis-proximal cooling system is associated with the anode body. The majority of all fibers with high heat conductivity in the longitudinal direction terminate bluntly both at the focal ring and at the cooling system, such that their abutting faces respectively are in direct, heat-conducting contact both with the focal ring and with the cooling system.

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